

# NSF Perception, Action, and Cognition Program Fall 2016 Newsletter

## Fiscal Year 2016 PAC Awards

We are excited to announce a new group of research awards for the PAC portfolio from the fiscal year 2016. You can find a list of all the awards that PAC made or contributed to during the year in the accompanying pdf. If you would like to know more about any of the awards, simply go to <http://nsf.gov/awardsearch/> and enter the 7-digit Award Number in the search field. That will bring up a link to the award. Click on the title to see the public abstract. Another interesting part is the section titled "NSF Programs" that appears a bit above the abstract. That section lists all the NSF programs that contributed to the funding. Our success rate this fiscal year was 15%-17%, depending how you count, which is not bad given that it does not include the awards through other programs that were PAC-relevant and to which we contributed. We were very successful at leveraging funds from other programs for our community (e.g., funds from the BRAIN initiative, for Public Access of data and software, for forensics-related research, for awards relevant to the science of broadening participation, as well as from other standing programs).

## Heartfelt Thanks

We would like to extend our thanks to the many members of our research communities who contributed your time and expertise to the merit review process in the last year. The effort of our ad hoc reviewers and panelists make our support of the research communities possible.

## Updates for the Research Community

- The Science of Learning Program has undergone a shift of focus and is now a core program within Behavioral and Cognitive Sciences. You can check out the new program description at the following link:

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5567](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5567)

- NSF is currently in the process of updating the strategic plan for the Foundation. As part of this process, there is a call for public feedback on the current strategic plan. You can view information about this process and submit comments until September 27.

<https://www.nsf.gov/od/oia/strategicplan/feedback.jsp>

- As always, you can check the PAC website for updates to our program description as well as links to the other opportunities for funding at NSF that may be of interest to our broad research community.

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5686](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5686)

- If you are active on social media, you can search #sbefunded and #BroaderImpacts, or follow @NSF\_SBE on Twitter, to see periodic posts, such as the one linked below, from and about our PAC PIs as well as others throughout the directorate and the foundation. If you are a PI, feel free to use these hashtags, as appropriate, when you post about grant-related activities.

<http://nationalsciencefoundation.tumblr.com/post/145014375973/the-science-of-distracted-driving>

**Perception, Action, & Cognition Awards for FY 2016:**

<i>Laura Thomas 1556336</i>
Action influences on visual processing near the hands
<i>Emily Myers 1554810</i>
CAREER: Optimizing Non-Native Speech Sound Learning
<i>Joo-Hyun Song 1555006</i>
CAREER: Paradoxical benefits of distraction for motor memory
<i>Andrew Leber 1632296</i>
Characterizing the Determinants of Goal-Driven Attentional Control
<i>Thomas Redick/Gene Brewer/Nash Unsworth 1632403/1632291/1632327*</i>
Collaborative Research: Testing Individualized Cognitive Training Interventions Based on a Multifaceted Theory of Working Memory
<i>Michael Beran 1552405</i>
Confidence Judgments and Metacognition in Comparative and Developmental Perspective
<i>Mercedes Fernandez 1632377</i>
Does learning a second language enhance inhibitory processes and executive function?
<i>Nazbanou Nozari 1631993</i>
Executive control in sentence production
<i>Kiel Christianson 1628347</i>
Exploring the link between re-reading and comprehension
<i>Robert Hampton 1632477</i>
Function and Evolution of Cognitive Monitoring and Cognitive Control
<i>Ferdinando Mussa-Ivaldi 1632259</i>
NSF/SBE-BSF: Integration of kinesthetic and tactile information in perception, action, and learning
<i>Robert Shapley 1555773</i>
Mechanisms of Color Perception: Dependences on Color Contrast and Spatial Pattern
<i>Joshua Hartshorne 1551834</i>
CompCog: Large-scale, empirically based, publicly accessible database of argument structure to support experimental and computational research

<b><i>Sarah Brown-Schmidt 1556700</i></b>
<b>Perspective-taking in Conversation</b>
<b><i>Jessica Witt 1632222</i></b>
<b>The Effect of Action on Perception and Cognition</b>
<b><i>Lawrence Rosenblum 1632530</i></b>
<b>The Multisensory Training Benefit for Speech and Speaker Perception</b>
<b><i>Marc Berman 1632445</i></b>
<b>The Relationship between Natural Environments, Fatigue, and Attention</b>
<b><i>Duane Watson 1557097</i></b>
<b>The role of production processes in determining word duration</b>
<b><i>Chad Dodson 1632174</i></b>
<b>Understanding Confidence: Eyewitness Testimony as a Model Case</b>
<b><i>Wendy Francis 1632283</i></b>
<b>Improving Word Production through Comprehension Exposure</b>

**Awards from other programs that PAC contributed to:**

<b><i>John Hale 1607441 Collaborative Research in Computational Neuroscience</i></b>
<b>US-French Collaboration: Collaborative Research: Neuro-Computational Models of Natural Language</b>
<b><i>James Haxby 1607845 Collaborative Research in Computational Neuroscience</i></b>
<b>CRCNS: Collaborative Research: A Common Model of the Functional Architecture of Human Cortex</b>
<b><i>Jerome Busemeyer/Zheng Wang 1560554/1560501 METHODOLOGY, MEASUREMENT &amp; STATISTICS *</i></b>
<b>Collaborate Research: Construct a General Hilbert Space Multi-dimensional Model</b>
<b><i>Elizabeth Bonawitz 1627971 DECISION RISK &amp; MANAGEMENT SCIENCE</i></b>
<b>Choosing to learn: Investigating the factors that drive preschoolers' exploration</b>
<b><i>Karen Emmorey/Ariel Goldberg/Naomi Caselli 1625954/1625761/1625793 LINGUISTICS*</i></b>
<b>Collaborative Research: The structure of the ASL lexicon: Experimental and statistical evidence from a large lexical database (ASL-LEX)</b>
<b><i>Roger Levy 1551866 LINGUISTICS, ROBUST INTELLIGENCE</i></b>
<b>CompCog: The edge of the lexicon: Productive knowledge and direct experience in the acquisition and processing of multiword expressions</b>
<b><i>Barbara Knowlton 1634157 COGNITIVE NEUROSCIENCE</i></b>
<b>Investigating the Neural Substrates of Learning that Supports Transfer</b>

**Workshops and conferences PAC supported or contributed to:**

<b><i>Adilson Motter 1647351</i></b>
<b>Workshop on Multidisciplinary Complex Systems Research</b>
<b><i>Daniel Hruschka 1623555</i></b>
<b>Workshop: Enhancing robust and generalizable experimental behavioral science</b>
<b><i>Douglas Medin 1647219</i></b>
<b>WORKSHOP: Enhancing robustness and generalizability in the social and behavioral sciences</b>
<b><i>David Reitter 1613241</i></b>
<b>Conference support: ICCM 2016: International Conference on Cognitive Modeling</b>
<b><i>Theodore Zanto 1632014</i></b>
<b>International Conference on Music Perception and Cognition</b>
<b><i>Ervin Hafter 1637368</i></b>
<b>Listening into 2030: Imagineering the Future of Spoken Communication Science and Technology</b>

If you would like to know more about any of the awards, simply go to <http://nsf.gov/awardsearch/> and enter the 7-digit Award Number in the search field. That will bring up a link to the award including the public abstract and other information about the award.

For more information about the NSF PAC program, visit our home page:  
[https://nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5686](https://nsf.gov/funding/pgm_summ.jsp?pims_id=5686).